6. Schematic Diagrams

6-1 S.M.P.S. ---------- 6-2
6-2 Power Drive ---------- 6-3
6-3 Diaplay/Function ---------- 6-4
6-3 System Control/Servo ---------- 6-5
6-5 A/V ---------- 6-6
6-6 Hi-Fi ---------- 6-7
6-7 A2/NICAM ---------- 6-8
6-8 SECAM (Option) ---------- 6-9
6-9 OSD/VPS/PDC ---------- 6-10
6-10 TM ---------- 6-11
6-11 Input-Output ---------- 6-12
6-12 DVD AV-Decoder ---------- 6-13
6-13 DVD Servo ---------- 6-14
6-14 DVD Audio/Video ---------- 6-15

Note

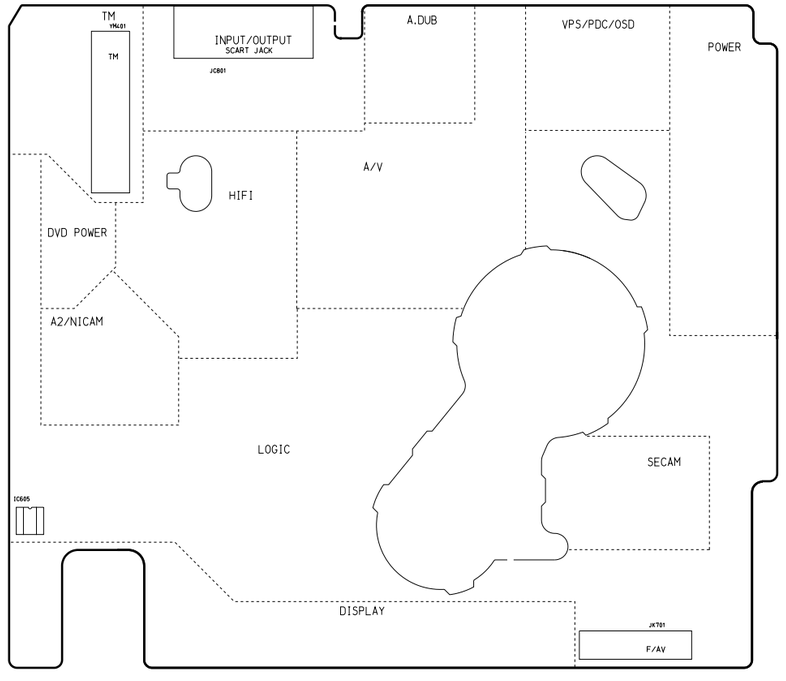
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

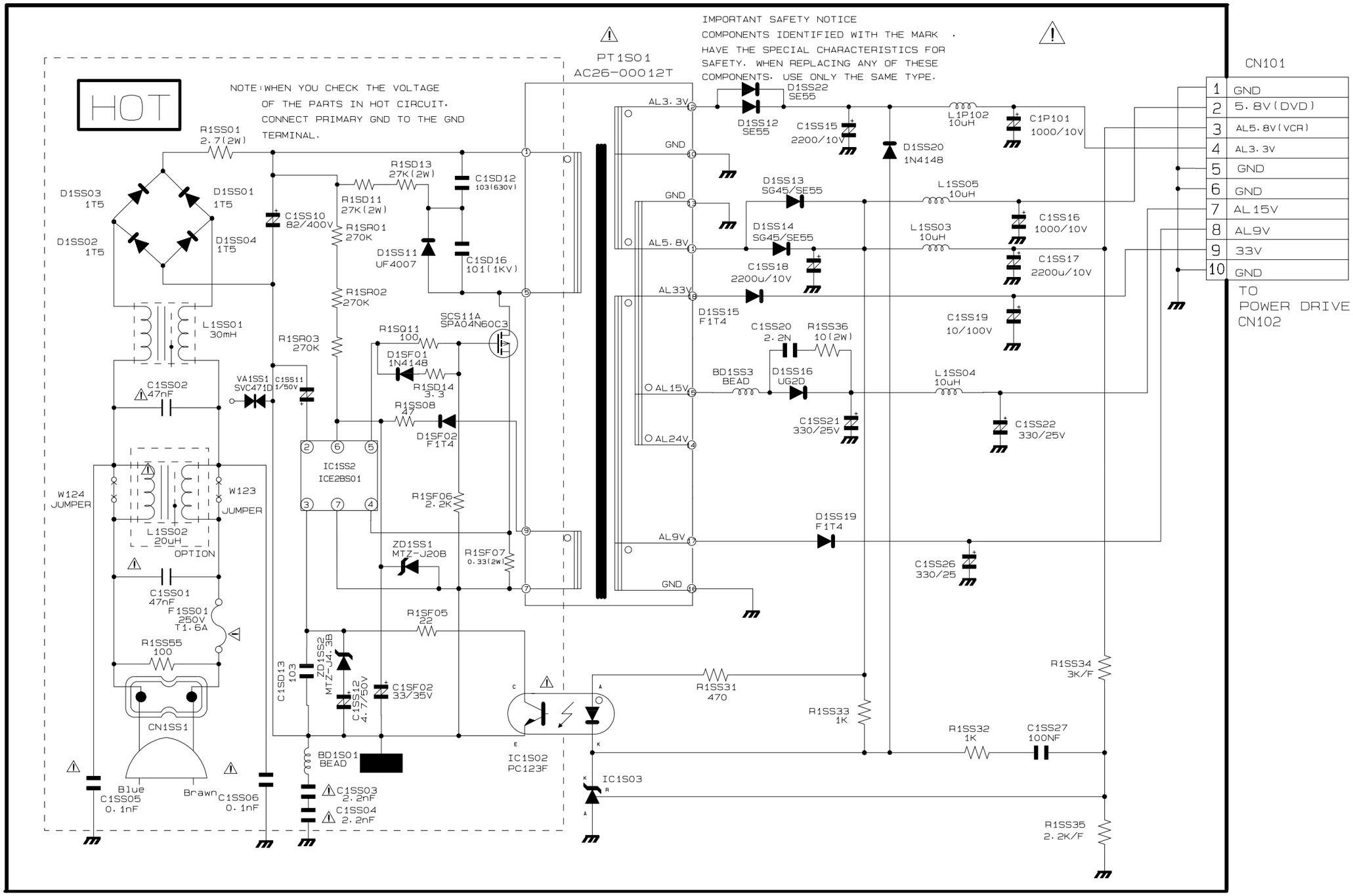
Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components.
Use only the same type.

◆ Block Identification of Main PCB



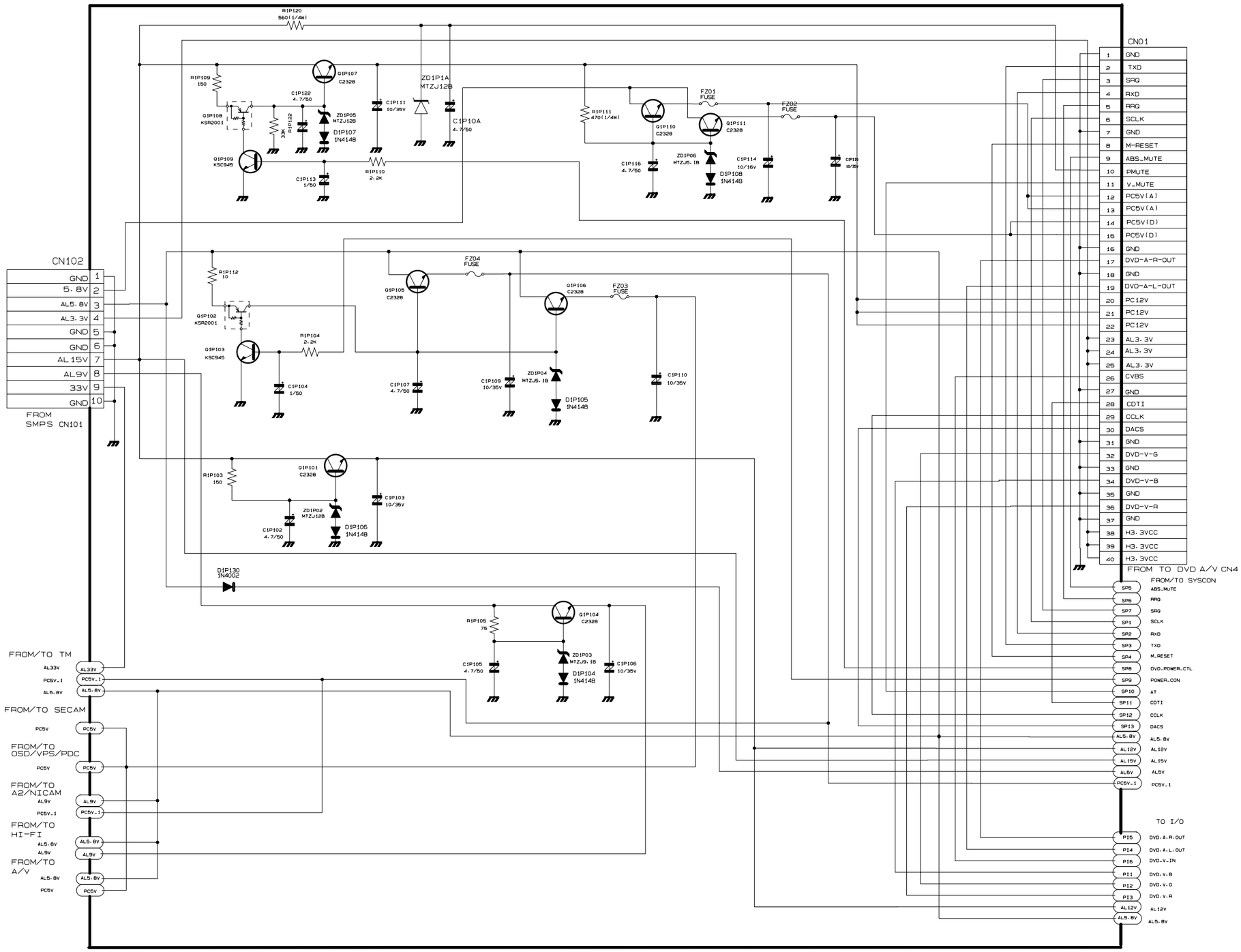
<Component Side>

6-1 S.M.P.S.

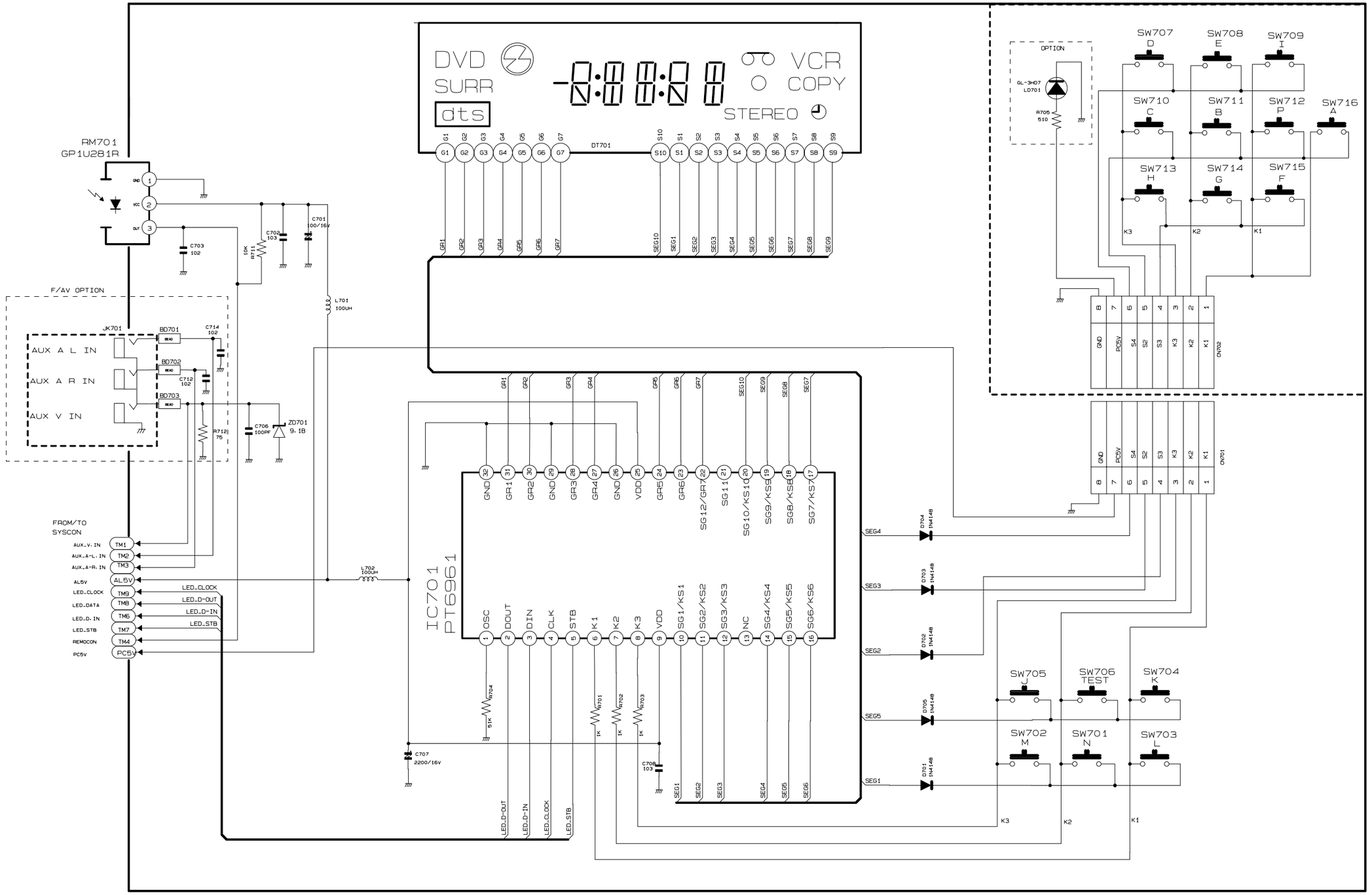


This Document can not be used without Samsung's authorization

6-2 Power Drive

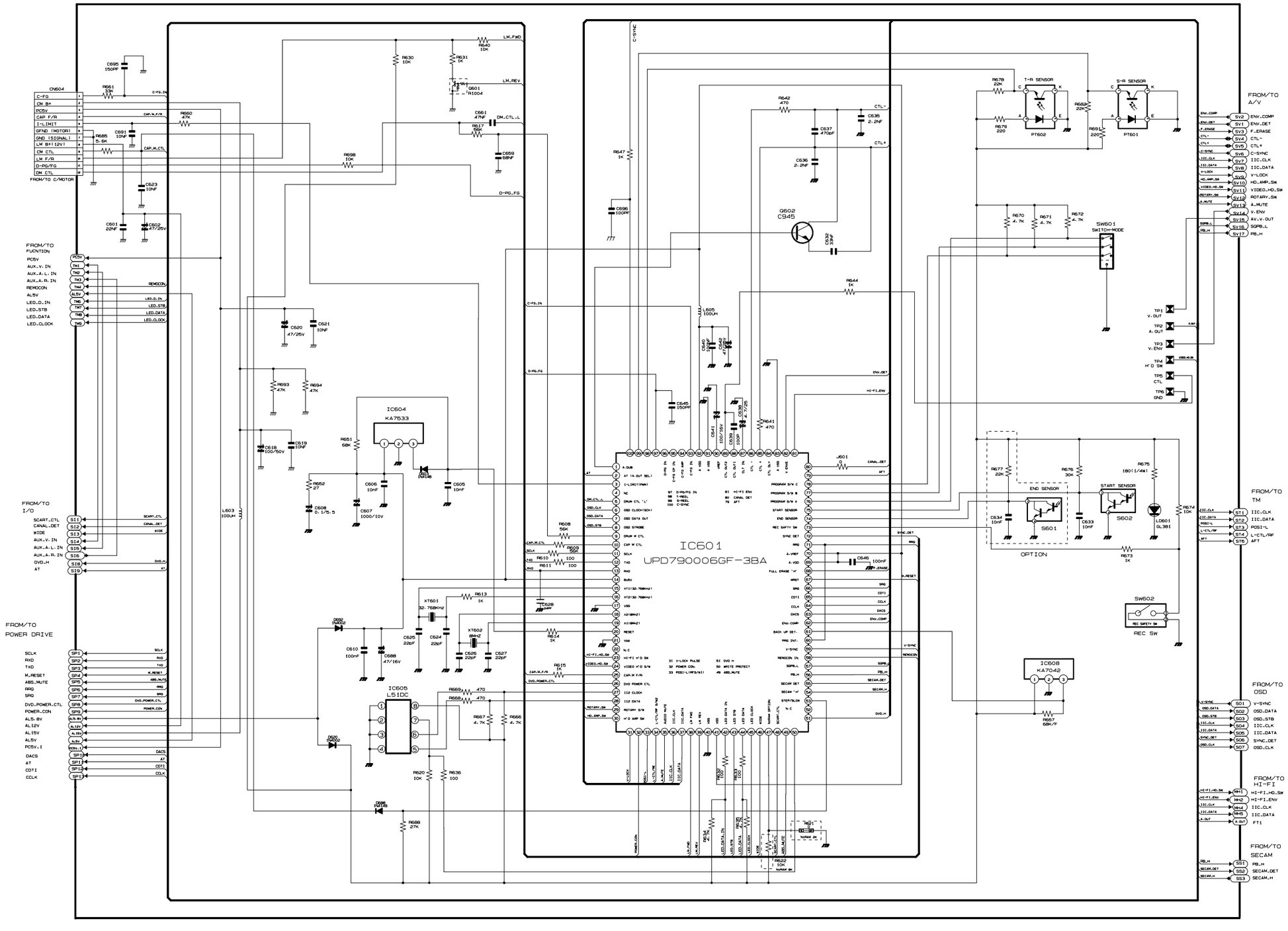


6-3 Display/Function

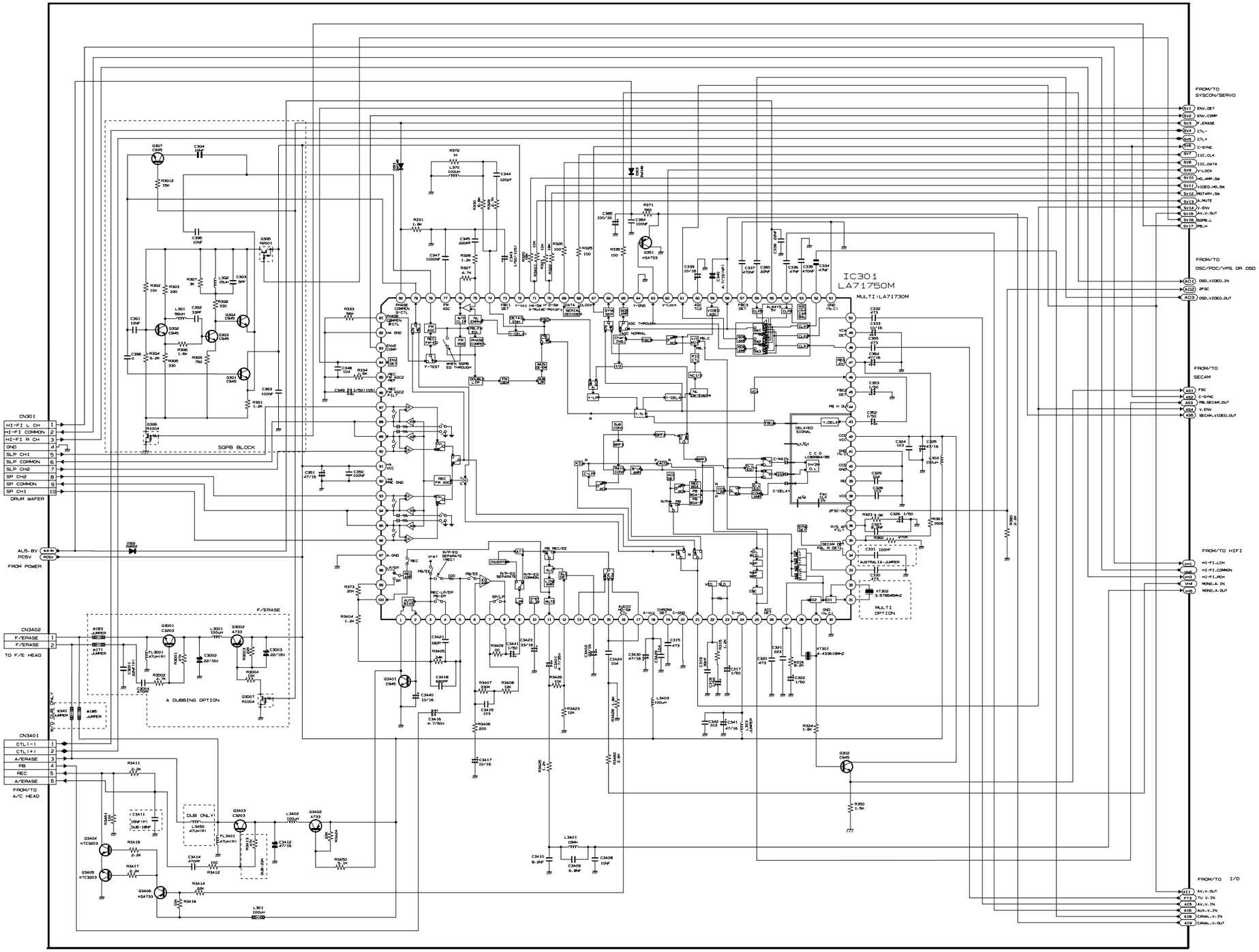


This Document can not be used without Samsung's authorization

6-4 System Control/Servo

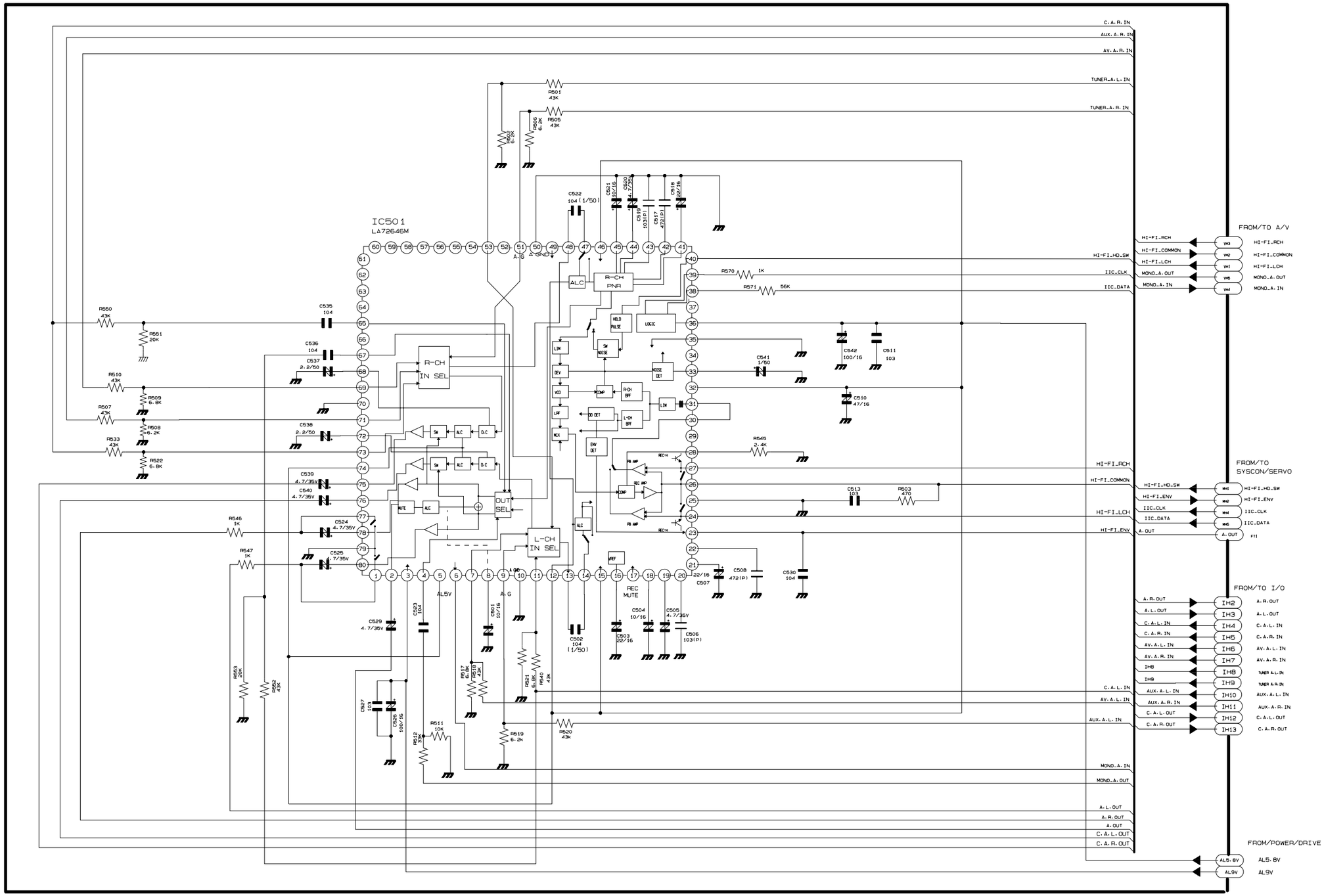


6-5 A/V



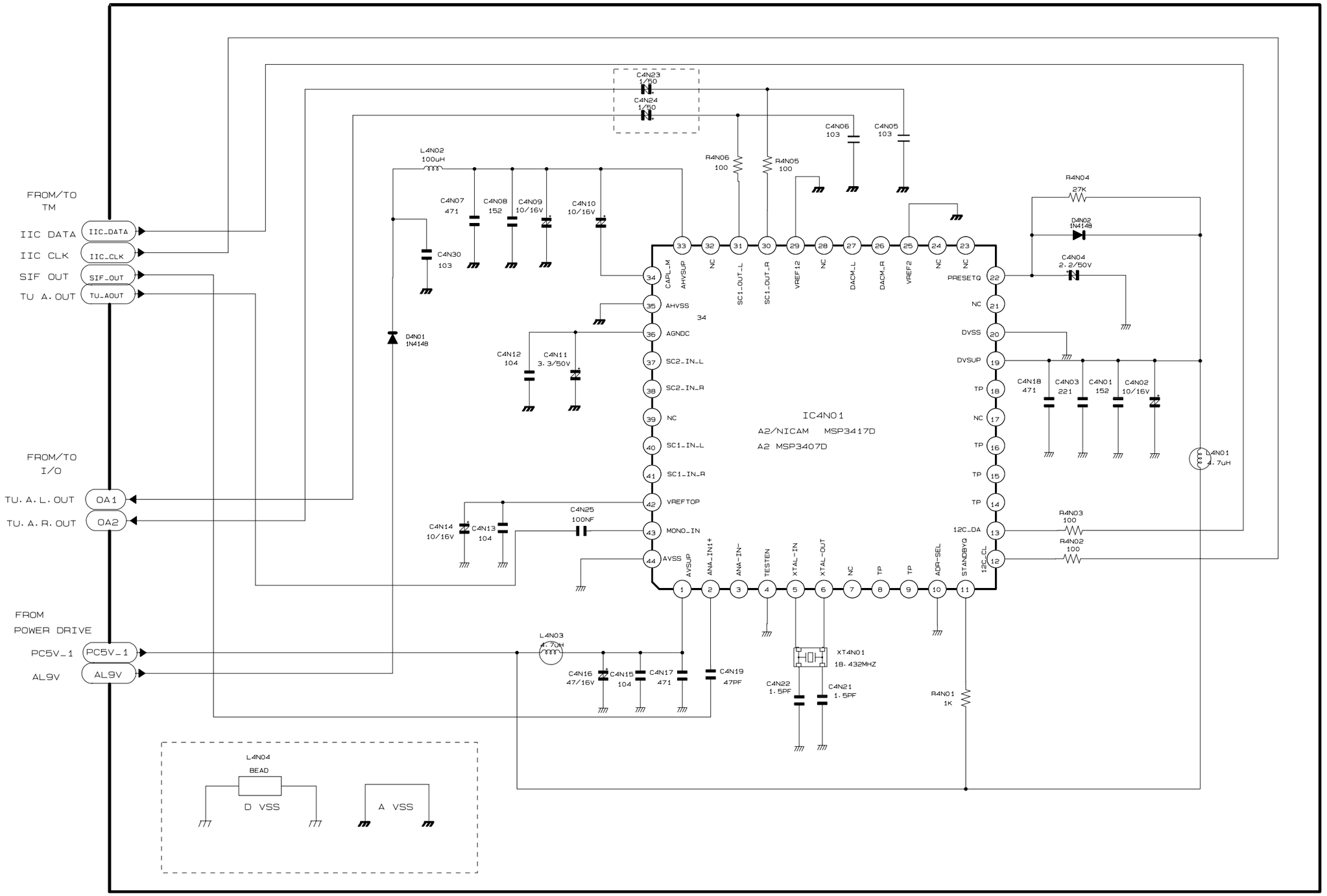
This Document can not be used without Samsung's authorization

6-6 Hi-Fi



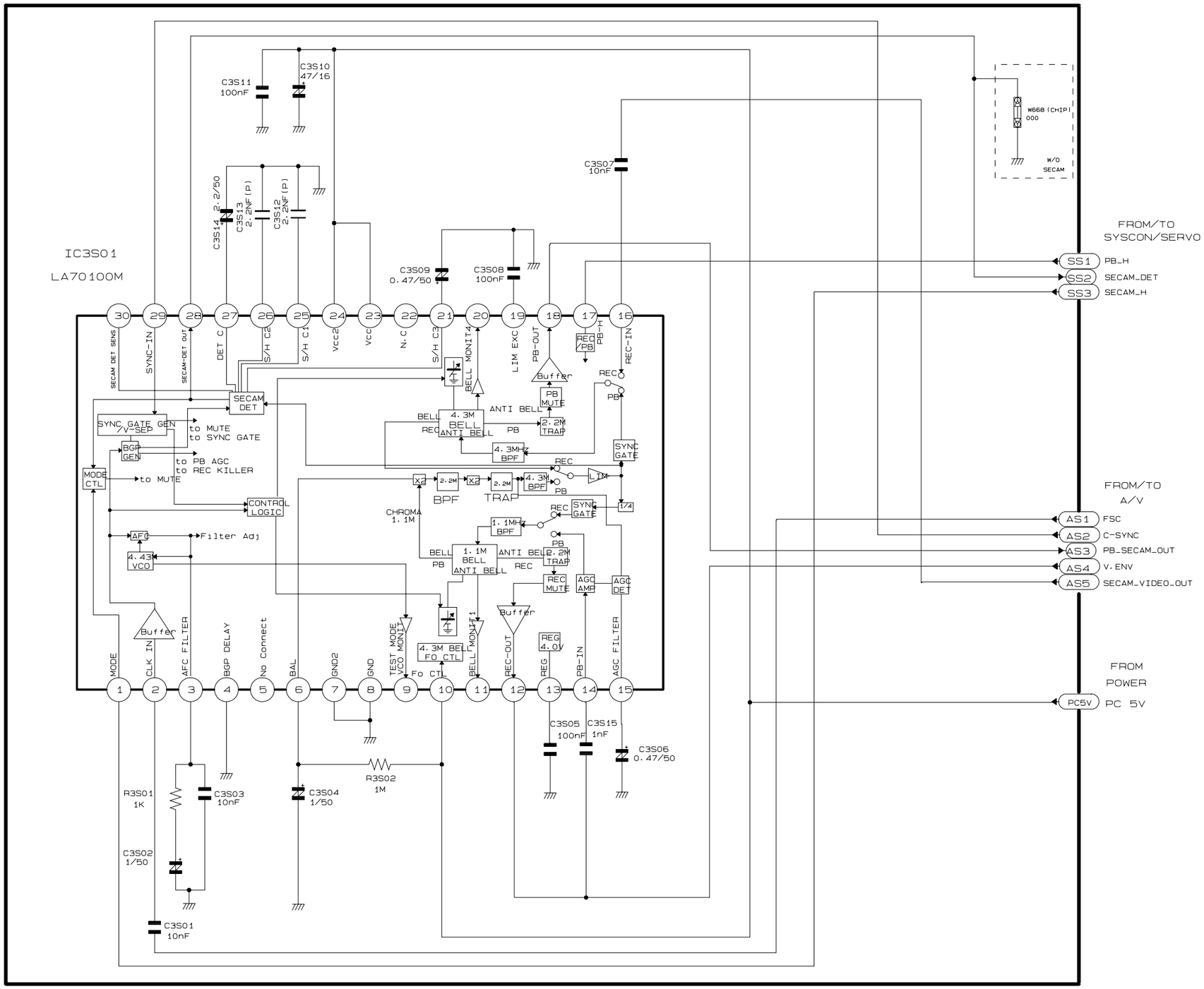
This Document can not be used without Samsung's authorization

6-7 A2/NICAM

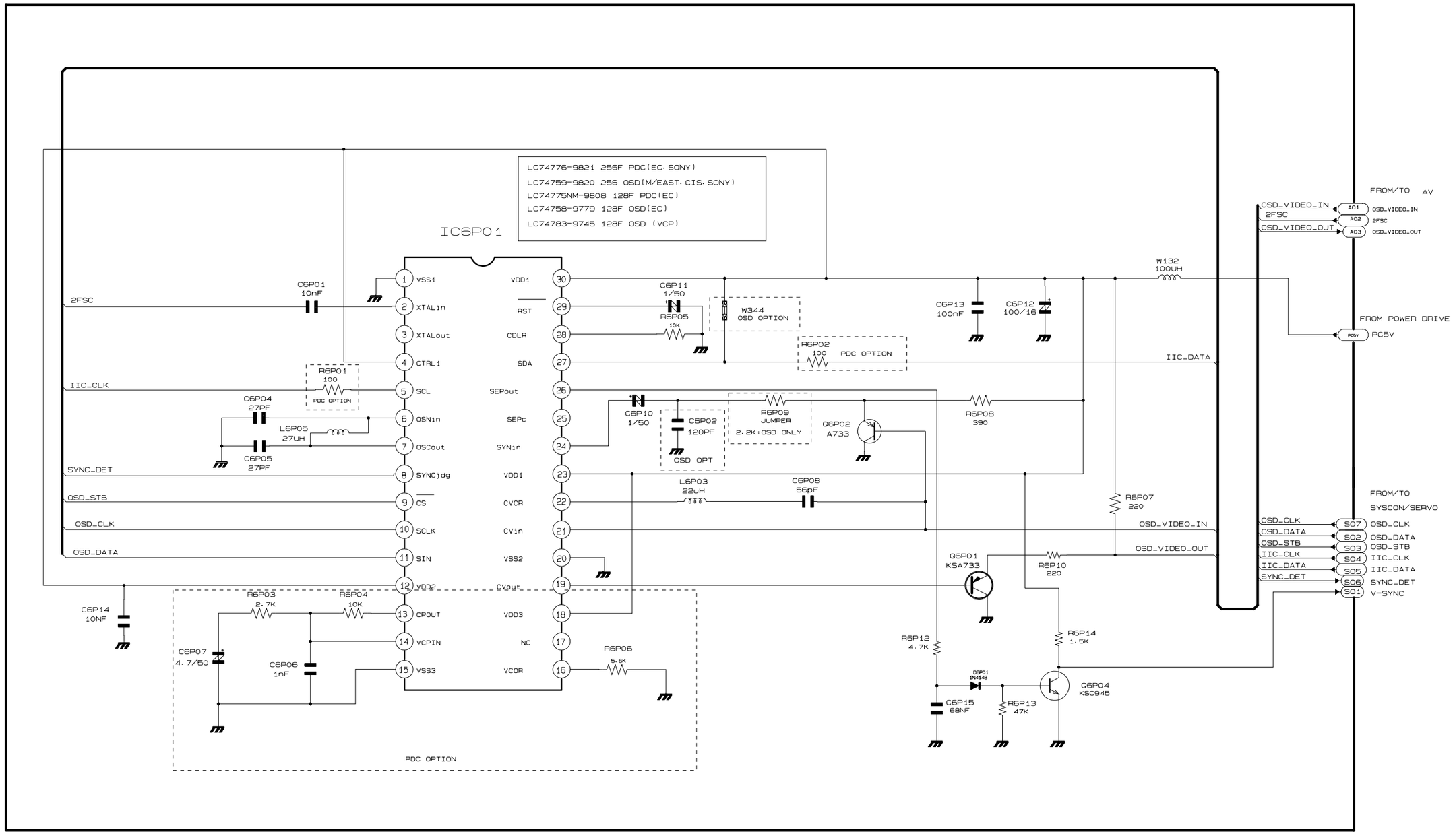


This Document can not be used without Samsung's authorization

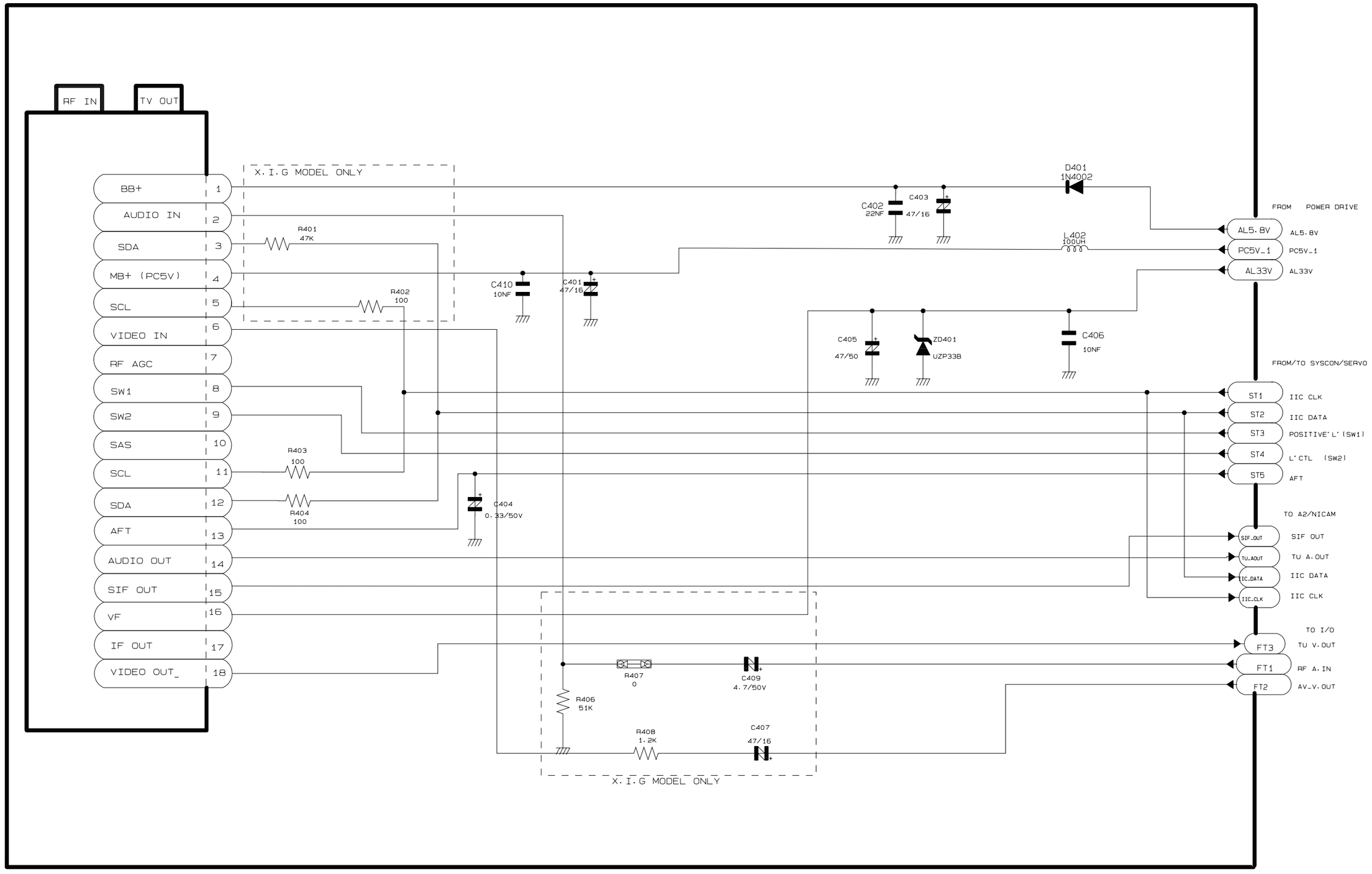
6-8 SECAM (Option)



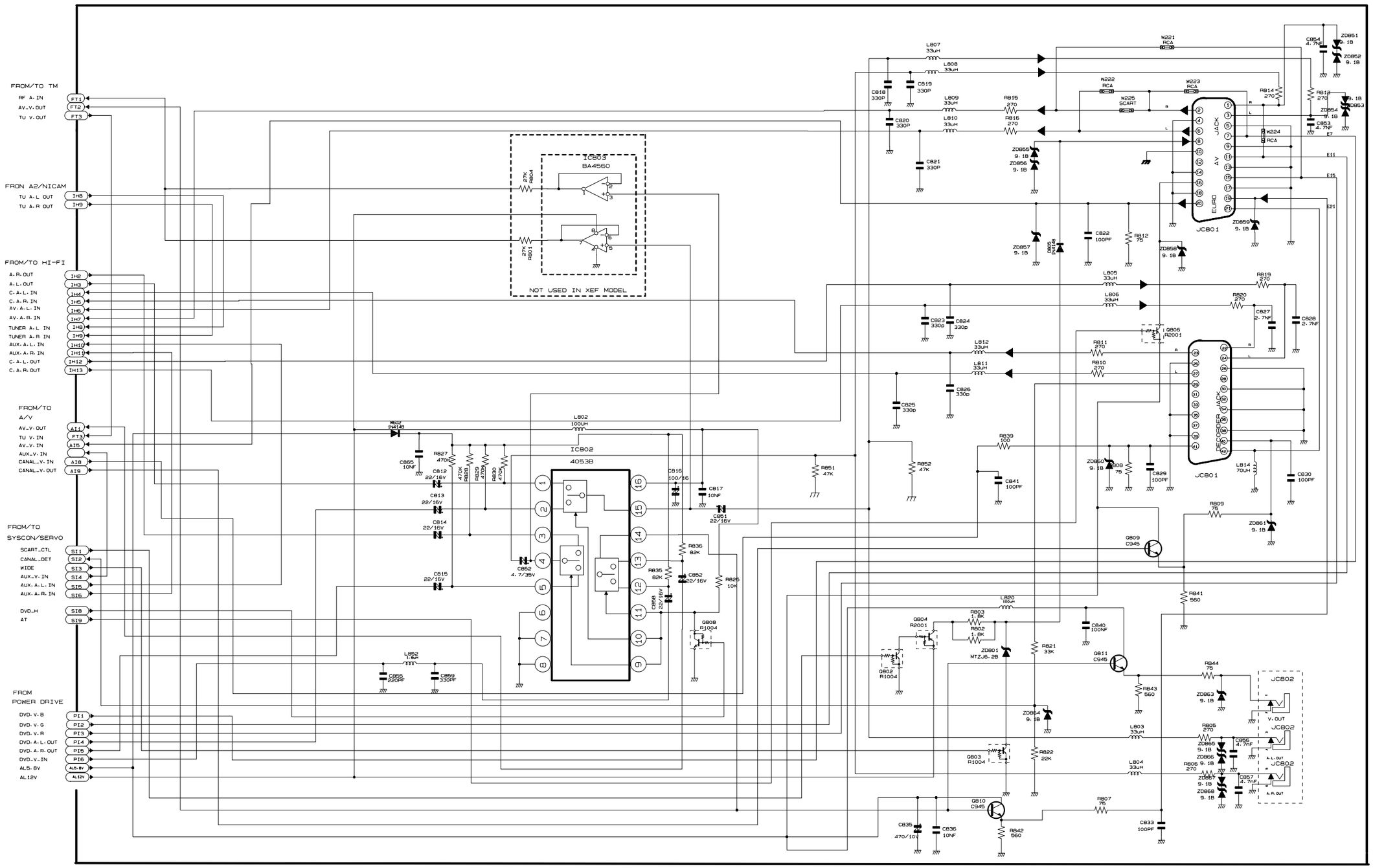
6-9 OSD/VPS/PDC



6-10 TM

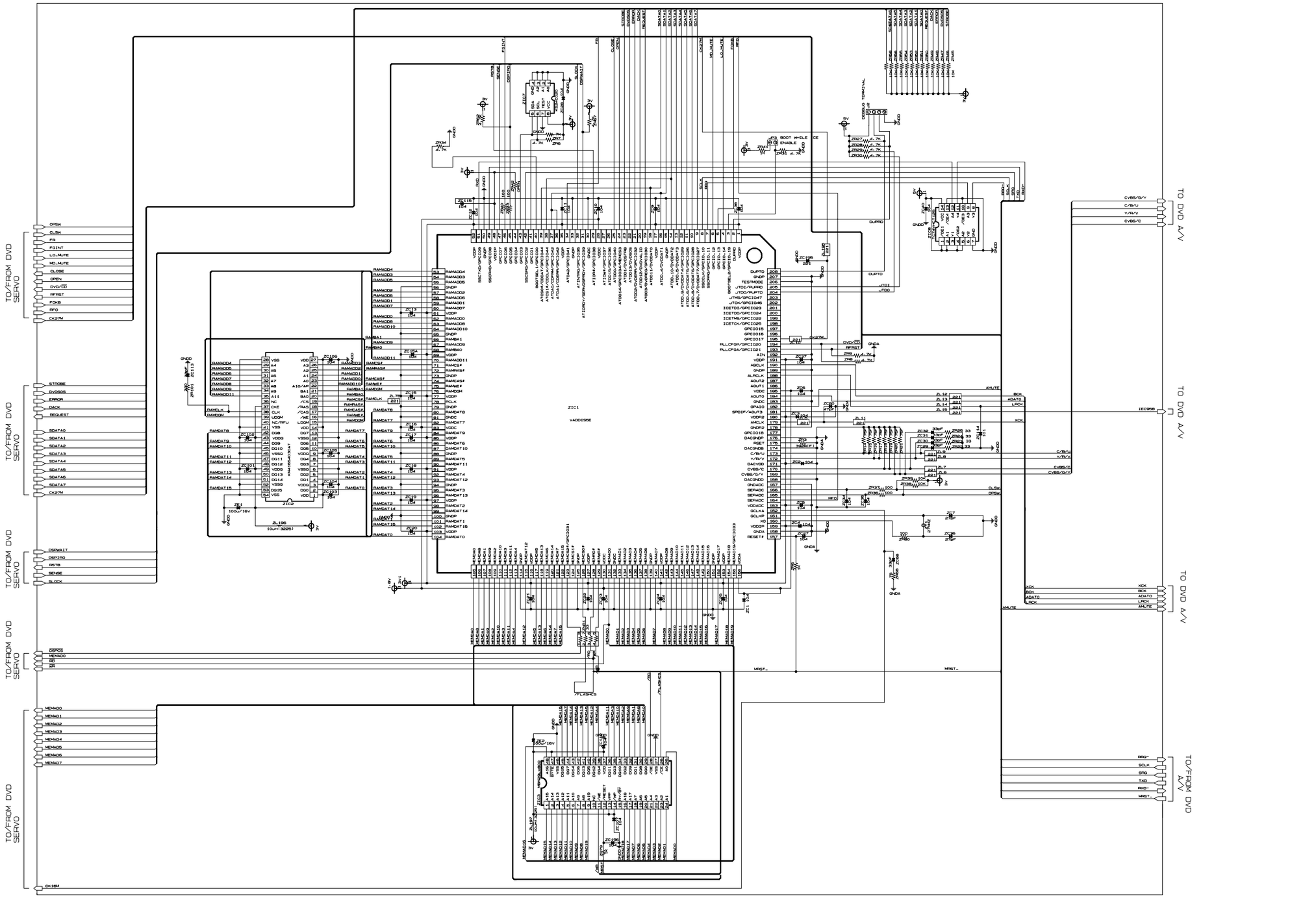

RF IN
TV OUT
X.I.G MODEL ONLY
BB+ 1
AUDIO IN 2
SDA 3
MB+ (PC5V) 4
SCL 5
VIDEO IN 6
RF AGC 7
SW1 8
SW2 9
SAS 10
SCL 11
SDA 12
AFT 13
AUDIO OUT 14
SIF OUT 15
VF 16
IF OUT 17
VIDEO OUT_ 18
R401 47K
R402 100
R403 100
R404 100
C404 0.33/50V
C410 10NF
C401 47/16
C402 22NF
C403 47/16
D401 1N4002
L402 100UH
C405 47/50
ZD401 UZP33B
C406 10NF
R407 0
C409 4.7/50V
R406 51K
R408 1.2K
C407 47/16
X.I.G MODEL ONLY
FROM POWER DRIVE
AL5.8V AL5.8V
PC5V_1 PC5V_1
AL33V AL33V
FROM/TO SYSCON/SERVO
ST1 IIC CLK
ST2 IIC DATA
ST3 POSITIVE'L'(SW1)
ST4 L'CTL (SW2)
ST5 AFT
TO A2/NICAM
SIF_OUT SIF OUT
TU_AOUT TU A.OUT
IIC_DATA IIC DATA
IIC_CLK IIC CLK
TO I/O
FT3 TU V.OUT
FT1 RF A.IN
FT2 AV_V.OUT

6-11 Input-Output

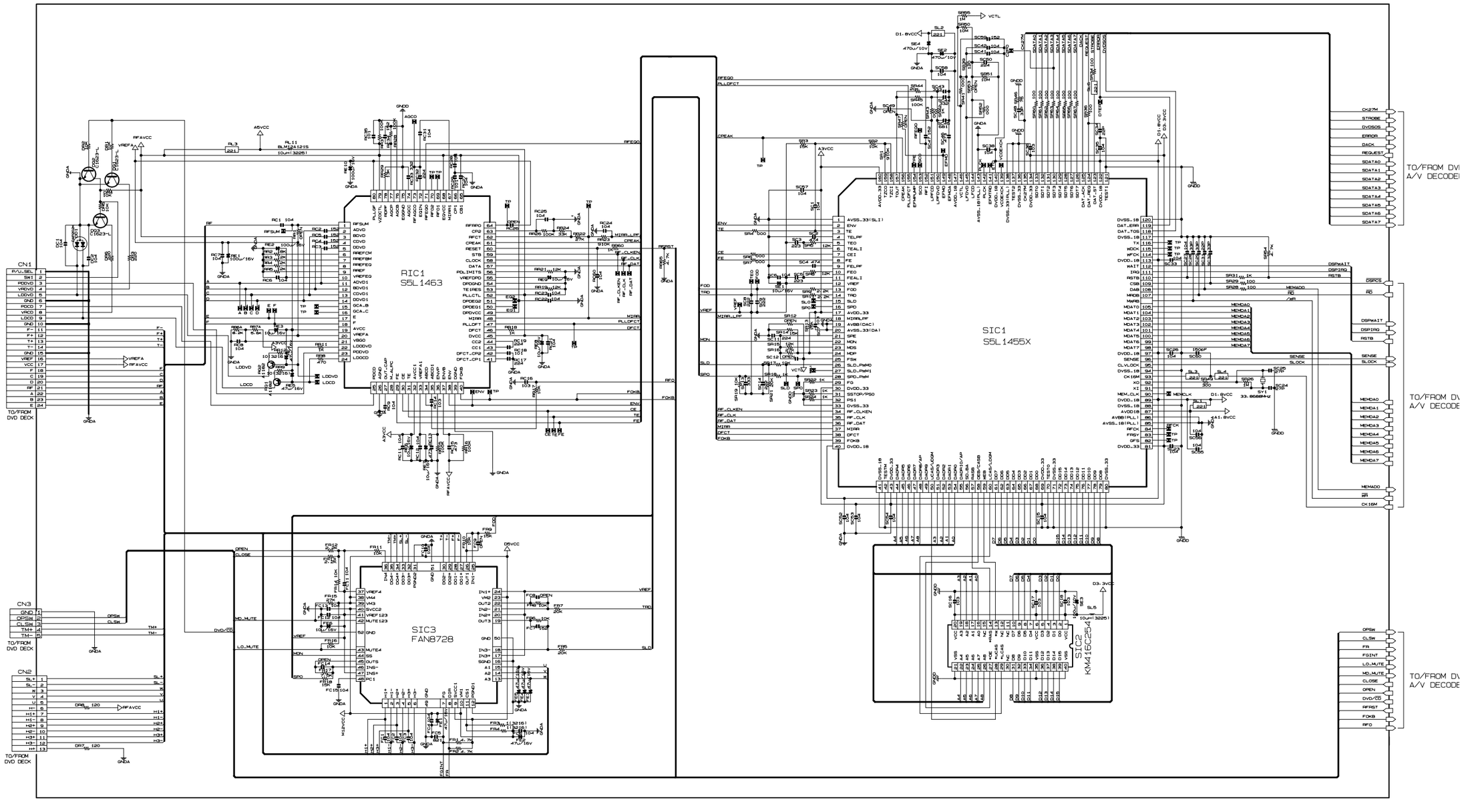


This Document can not be used without Samsung's authorization

6-12 DVD AV-Decoder

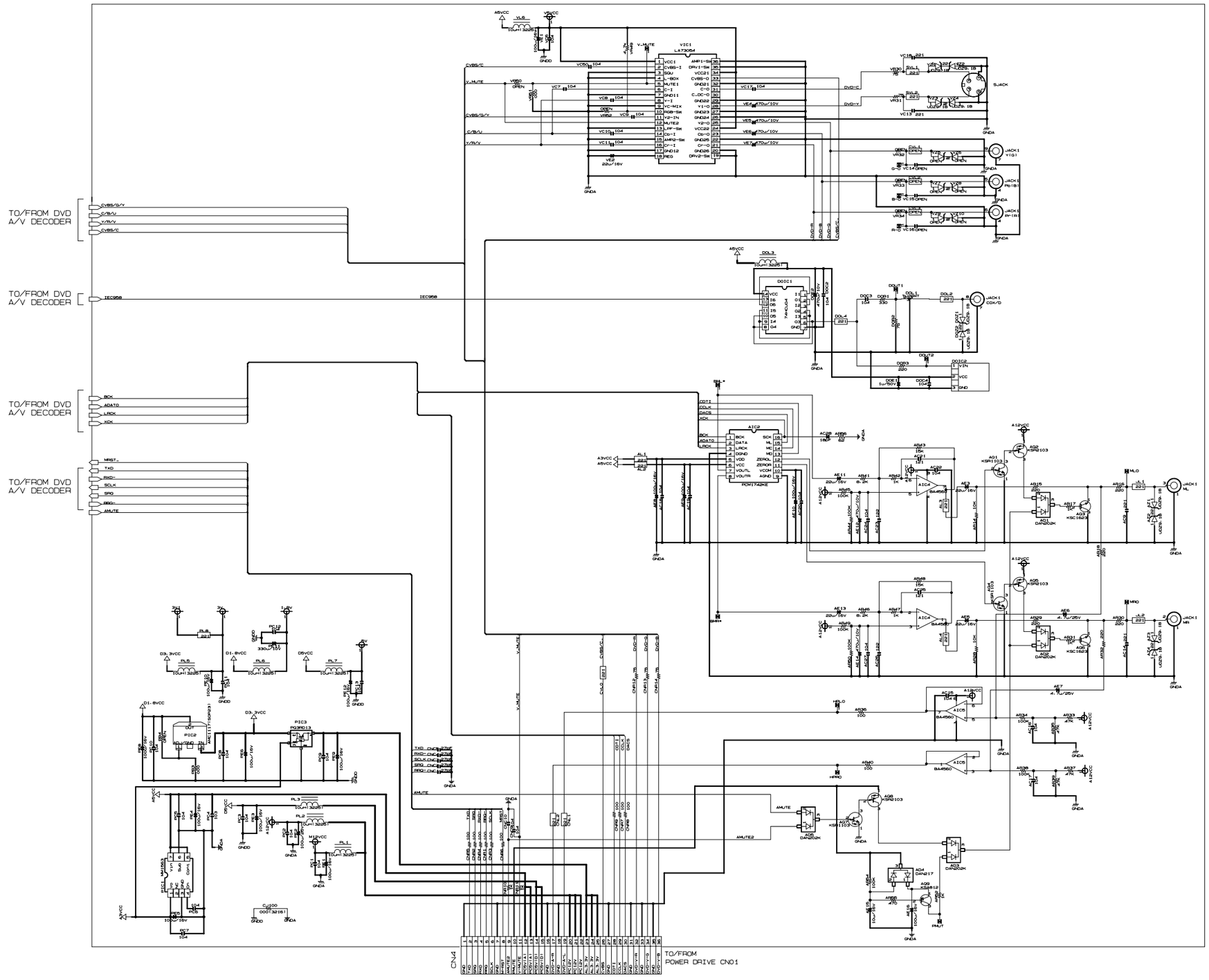

TO/FROM DVD SERVO
TO/FROM DVD SERVO
TO/FROM DVD SERVO
TO/FROM DVD SERVO
TO DVD A/V
TO DVD A/V
TO/FROM DVD A/V
DEBUG TERMINAL
JP3 BOOT WHILE CE ENABLE
ZIC1
VADD1S9SE
FLASH2S
DUMMY
DUMMY
DUMMY

6-13 DVD Servo



This Document can not be used without Samsung's authorization

6-14 DVD Audio/Video



MEMO